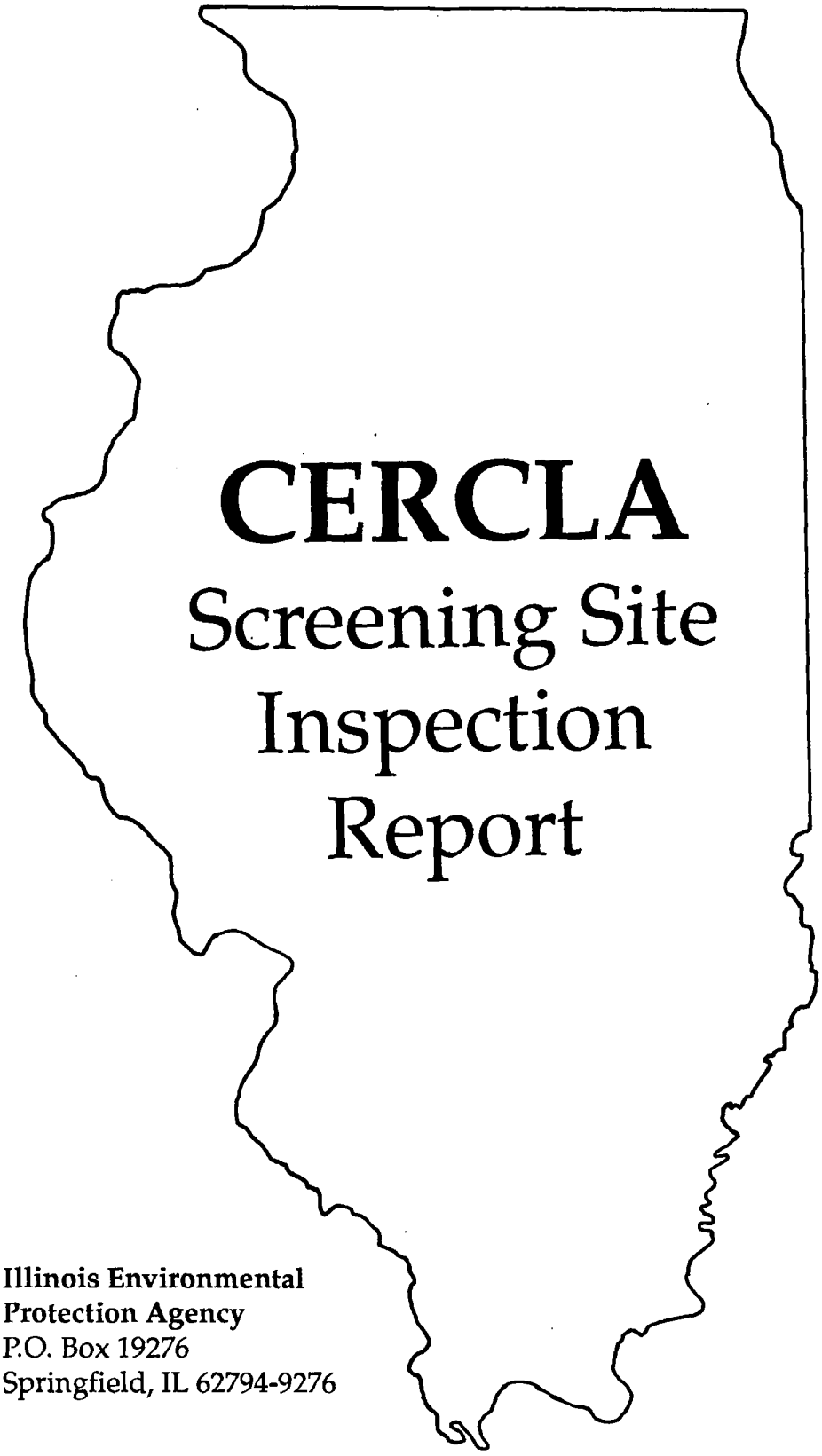


CERCLA
Screening Site Inspection Report

Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Confidential Material May be Enclosed

TABLE OF CONTENTS

APPENDIX PAGE

LIST OF TABLES

1. INTRODUCTION

Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (U.S.EPA) to conduct a screening site inspection at Revere Ware Corporation.

The site was added to CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) by the U.S.EPA in August of 1980. The site was evaluated in the form of a Preliminary Assessment (PA) that was completed by Sue Murphy of the Illinois EPA and submitted to U.S.EPA on Febuary 1, 1985. IEPA's Pre-Remedial Unit prepared a screening site inspection (SSI) work plan for Revere Ware Corporation that was approved by U.S.EPA. The SSI was conducted on December 5, 1989, with the collection of soil and groundwater samples.

The purposes of an SSI have been stated by U.S.EPA in a directive outlining Pre-Remedial program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these site, however. First, they will go through a management evaluation to determine

> whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act]... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred by another authority will receive a listing SI (U.S.EPA 1988).

U.S.EPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section contains a summary of information gathered from the Preliminary Assessment, Illinois Environmental Protection Agency (IEPA) files, preparation of the SSI work plan and discussions with site representatives.

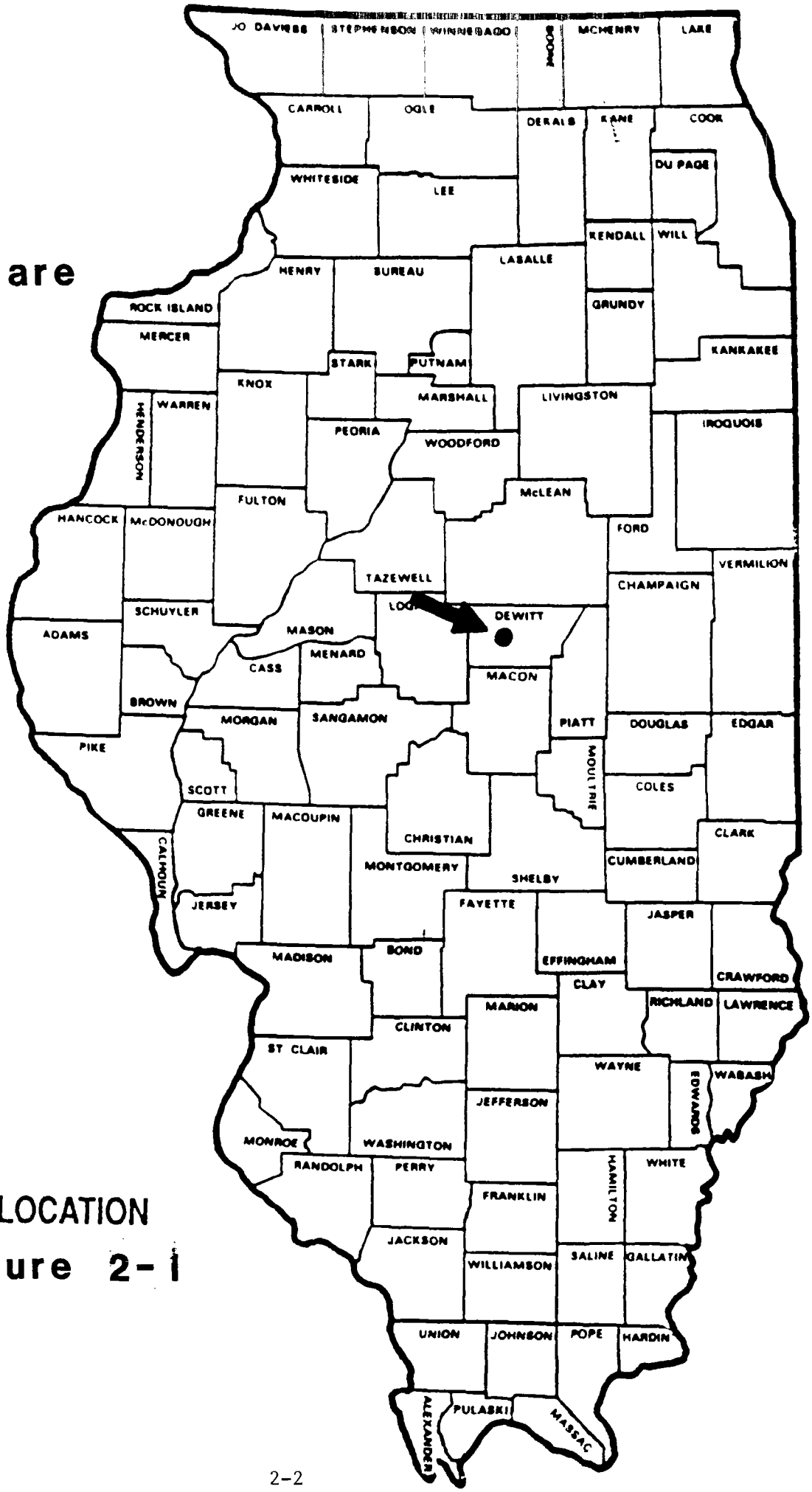
2.2 SITE DESCRIPTION

The Revere Ware Corporation, a subsidiary of Corning Glass Works occupies approximately 70 acres and is located on South Sherman Street, Clinton Illinois, Township 20 North, Range 2 East, Section 35, DeWitt County.

The site consists of a distribution center (previously the tube mill) and a manufacturing building. The facility presently manufactures copper-clad stainless steel kitchen utensils including pots (4 quarts or more capacity) and pans (less than 4 quarts capacity). The processes and operations at the plant include machining, washing, copperplating, bonding, belt grinding, buffing and polishing, welding, warehousing and descaling. A four-mile radius map for groundwater and a fifteen-mile surface water map of the Revere Ware Corporation site is provided in Appendix A and Appendix B, respectively.

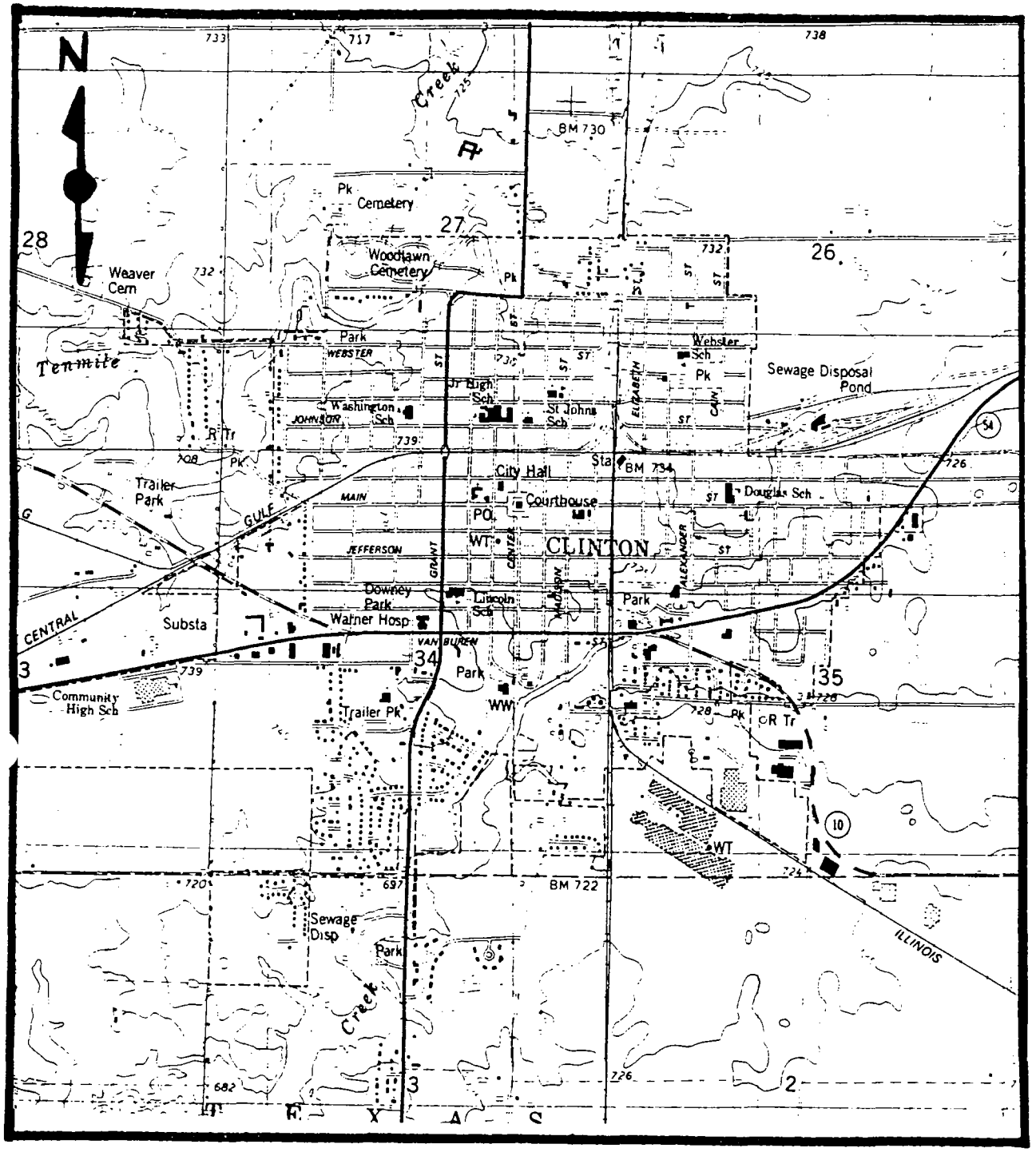
The site is bordered by farmland on the south and east sides and residential areas to the north and west. A small wooded area also exists on the west side of the site.

Revere Ware Corp.



SITE LOCATION

Figure 2-1



REVERE WARE CORPORATION

QUADRANGLE LOCATION

Site Topography

Figure 2-2

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

2.3 SITE HISTORY

Revere Ware Corporation has been in operation since 1950 and is currently operational. Prior to the acquisition of the facility by Revere Ware in 1950, the site was occupied by the Goodyear Shoe Company, according to Revere Ware representatives. Revere Ware Corporation, formerly Revere Copper and Brass, generated the following hazardous wastes during its years of operation;

Spent copper plating solution (D001)
Spent chrome plating solution (D002 and D007)
Spent stripping solution (D002)
Spent brightening solution (D002 and D007)
Mercurous nitrate waste
Wastewater treatment sludge (F006)

In the early 1960's, Revere Ware Corporation created two ponds to provide cooling water to the plant. The ponds (North and South) range from three to five feet in depth and cover approximately one acre each. They were used by Revere to receive contact cooling water from a continuous casting furnace, chrome plating rinse operation, copper plating rinse operation, pickle rinse operation, billet quench and Pierre operation waste. A waste water treatment unit was installed to treat the waste before it was discharged into the ponds. The ponds are supplied with water by a stream which flows across the site, and that eventually leads into Coon Creek.

Coon Creek leads to Salt Creek and ultimately to the Sangamon River (outfall number 001 is assigned to the discharge point of the north pond that leads to Coon Creek). Revere Ware has a history of violations regarding effluent discharges exceeding IEPA limits that lead to the unnamed tributary to Coon Creek.

Daily samples of the ponds were taken and a monthly report was sent to Revere Ware during the time the ponds were utilized. The research department at Revere Ware then determined the level of dissolved copper within the samples. When the concentrations of dissolved copper were too high, sodium metasilicate was added so the copper would precipitate onto the bottom of the ponds. The ponds were dredged in 1977 and the sediment was distributed onto the banks of the ponds. Originally, the ponds were under the regulatory jurisdiction of the U.S. Army Corps of Engineers. The U.S. Environmental Protection Agency (USEPA) regulated these ponds when the National Pollutant Discharge Elimination System (NPDES) was originated. The USEPA issued the original NPDES Permit around 1975. The Illinois Environmental Protection Agency later became the regulatory agency. Cooling water for the plant is currently being supplied by the Clinton water system.

Revere Ware Incorporated created two acid evaporation lagoons in the 1960's. The lagoons, ranging from three to five feet in depth, were installed to accept waste materials from one of the manufacturing lines. The lagoons received concentrated waste acid solutions and copper plating

solutions during their years of operation. Both lagoons were originally constructed with an asphalt/limestone mix liner. The content of these lagoons and their liners were removed and transported off-site between 1976-1981. Each lagoon was then lined with a hypalon liner after the original liner was removed. These impoundments were abandoned and filled prior to RCRA (Resource and Conservation Recovery Act) regulations taking effect.

The National Response Center was notified on October 21, 1982 of a spill at Revere Ware Corporation. An accidental overfill of a storage tank for the plant's copper sulfate (D002/D007) was reported. A portion of the solution entered the facility's storm sewer system and was discharged into a stream via a NPDES permitted outfall. Immediate steps were taken to contain and clean up the spill. Revere's response to the spill appeared to have complied with most regulations found in Section 725.156 of Title 35, Subtitle G: Waste Disposal.

In the summer of 1988, O'Brian and Gere Engineers, Inc. conducted an Environmental Liability Assessment of the Revere Ware Corporation facility. Areas of concern included TCE UST areas, fuel oil UST areas, the north and south acid lagoons, and the two man-made ponds on the south side of the facility. O'Brian and Gere conducted soil and sediment sampling events and installed 12 groundwater monitoring wells to determine environmental deficiencies and the extent of impact that the company could be having on the surrounding areas.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI at the Revere Ware facility. Individual subsections address the site representative interview, and sampling procedures. The SSI was conducted in accordance with the U.S. EPA-approved workplan.

The USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Revere Ware Incorporated site is provided in Appendix C.

3.2 SITE REPRESENTATIVE INTERVIEW

Prior to the date of the SSI sampling event, IEPA representative Karen Petefish met with Corning Incorporated and Revere Ware representatives to discuss the major objectives of the IEPA SSI sampling event, the potential areas of concern on-site, and the general overview of the CERCLA process. Corning Incorporated expressed a sincere interest in the IEPA Voluntary Clean-up Program at this time. Karen Petefish directed Corning to a Voluntary Clean-up representative to obtain supplemental information on the program.

3.3 SITE RECONNAISSANCE INSPECTION

A site reconnaissance inspection was conducted by IEPA

representatives on November 28, 1989. The investigation included a tour of the site and surrounding area. Anthony Taubert, Revere Ware Corporation representative, assisted IEPA personnel in the tour which began at approximately 10:00 AM (See Figure 3-1, Site Features).

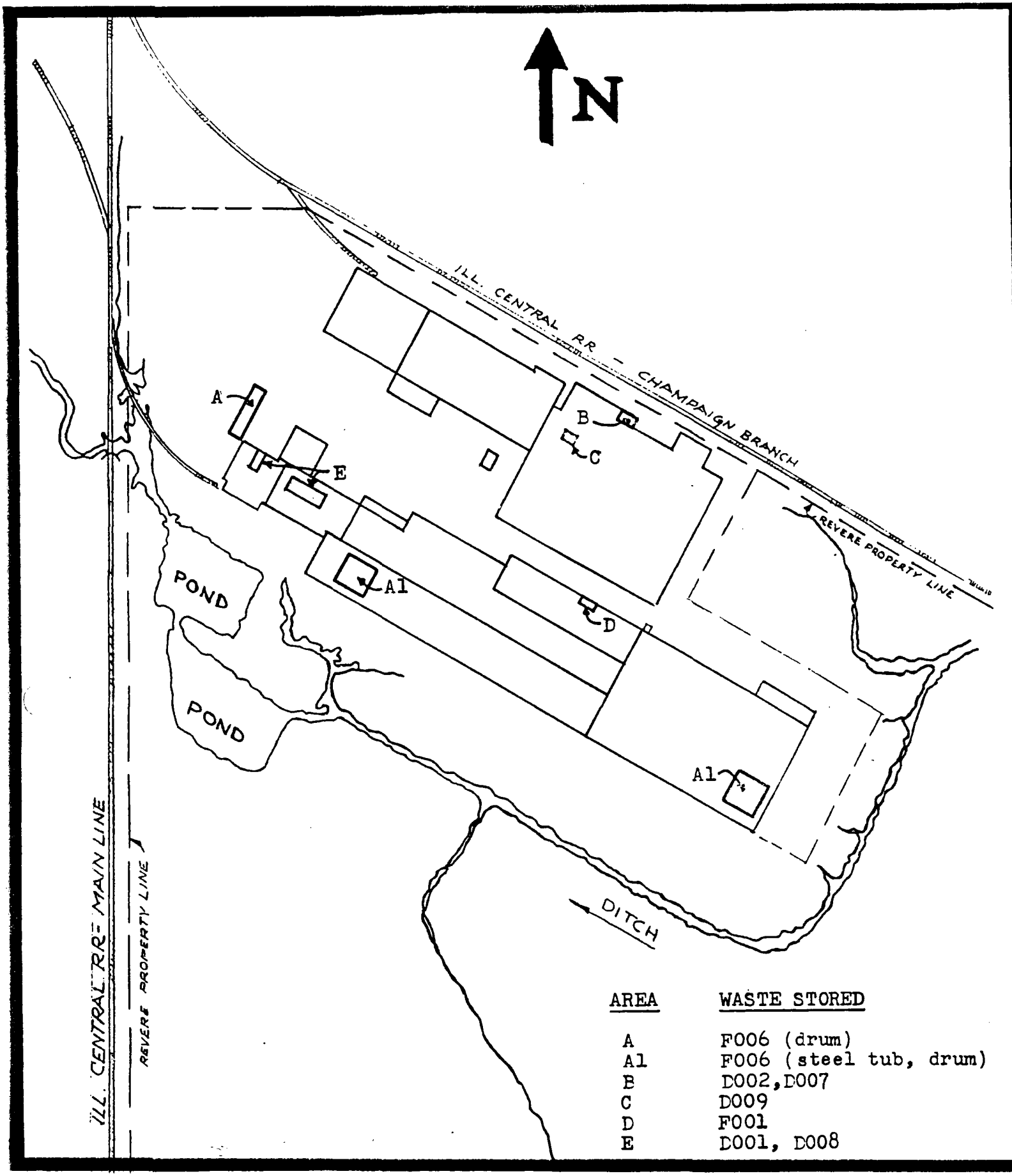
3.4 SAMPLING PROCEDURES

Samples were collected by Illinois Environmental Protection Agency personnel on December 5, 1989 to determine levels of U.S. EPA Target Compound List (TCL) compounds present at the site. The TCL is provided in Appendix D.

Karen Petefish, Ken Corkill and Greg Dunn of the IEPA collected seven soil/sediment samples and five groundwater samples to determine the potential hazardous waste areas at the Revere Ware facility. Included in these samples were two potential background samples (see Figure 3-2 for sampling locations). At this time, O'Brian and Gere Engineers split samples in the field with the IEPA. IEPA samples were analyzed for the TCL by IEPA's Springfield lab (Organic analysis) and IEPA's Champaign lab (Inorganic analysis).

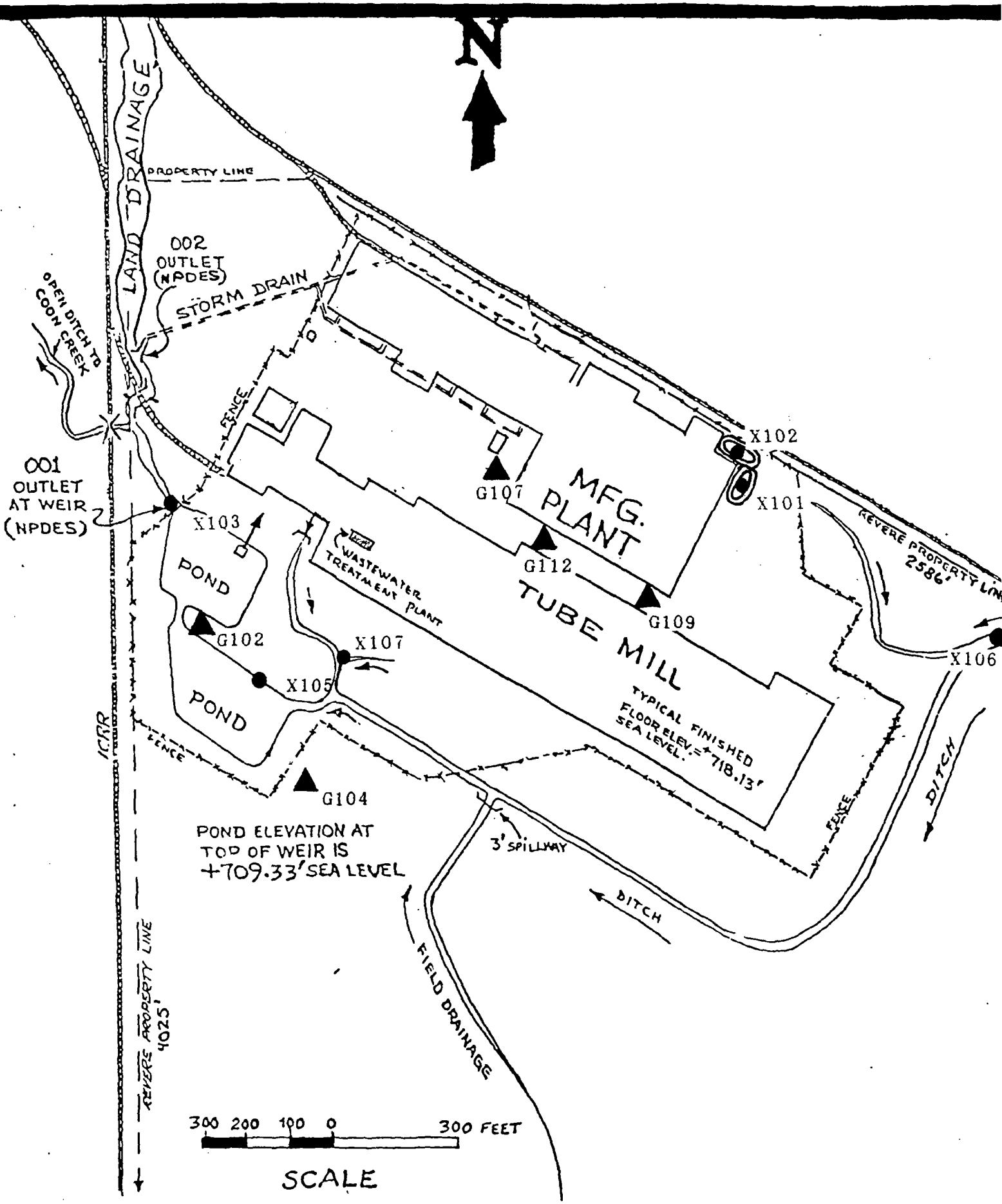
Soil Sampling Procedures: The potential background soil sample, X108, was taken at 404 Brown Street, approximately 1/8 mile north of the facility. The sample was taken in the backyard of a residential abandoned home. The sample was taken here due to the undisturbed and representative soil present.

X101 was taken on-site in the north acid lagoon area



Site Features

Figure 3-1



Sample Locations

Figure 3-2

approximately 31 feet nine inches from the northeast corner of the manufacturing building, 35 feet six inches from the fence bordering the north property boundary and 71 feet and one inch from the east wall of the manufacturing building. X102 was taken in the south acid lagoon area approximately 38 feet six inches from the east side of the manufacturing building and 68 feet eight inches from the fence bordering the north property boundary. Both samples were collected at a depth between three and five feet.

X103 was taken at the NPDES outfall 001 where the north pond empties into the unnamed tributary to Coon Creek. X105 sampling point was a sediment sample located on the bank of the north pond, south of the manufacturing building. X106 sampling point was an upstream sediment sample of the unnamed tributary stretching around the site. X106 was located approximately 22 feet two inches north from the overpass on the east end of the site. X107 sampling point was a soil sample taken south of the manufacturing building where previously dredged pond sediments were deposited. Soil/sediment samples were collected with a stainless steel spoon from a depth of 0 to 6 inches deep. Sample jars were filled directly from the sample point by the stainless steel spoon. The jars were evidence taped and packed in accordance with U.S. EPA required procedures

Groundwater Sampling Procedures: The groundwater monitoring wells that were sampled on this date include: G102, G104 (background), G107, G109 and G112 (See Figure 3-2,

Sample Locations). The wells were either bailed dry or approximately five well volumes of water was purged and pH and temperature were measured prior to sampling. The HNu (which detects organic vapors) read levels above background while IEPA personnel sampled G107, G112, G109 and G102. The levels ranged from 1 meter unit above background to 900 meter units above background. IEPA representatives wore respirators at sample location G109 where the meter reading reached 900 units above background. The wells were purged and sampled with a 3 foot teflon bailer and nylon cord. After sample collection, preservatives were added to the appropriate bottles, the bottles were then evidence taped and packed in accordance with U.S. EPA required procedures.

Decontamination Procedures: Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (bailers, spoons, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, rinsing with acetone, rinsing with hot tap water again, and final rinse with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes the analytical results of Target Compound List compounds from IEPA collected samples at Revere Ware.

4.2 ANALYTICAL RESULTS OF IEPA COLLECTED SAMPLES

Chemical analysis of groundwater samples collected by IEPA personnel revealed the following substances: volatiles, semi-volatiles, inorganics, and common groundwater constituents. Analysis of soil/sediment samples collected by IEPA personnel revealed the following substances: volatiles, semi-volatiles, heavy metals, common laboratory artifacts, and common soil constituents (See Table 4-1 for the summary of groundwater and soil/sediment sample results). Complete laboratory analytical data of groundwater and soil sample analysis are provided in Appendix G.

Based on the facility's history of wastes generated and waste managment practices, heavy metals were the primary contaminants of concern during the December 5, 1989, Screening Site Inspection. High concentrations of copper were detected in multiple on site soil samples. Trichloroethene was the primary contaminant found in on site monitoring well samples G109 and G112, lower concentrations of various other volatiles and semi-volatiles were also found.

Revere Ware Inc.
NLD000078274

TABLE 4-1
SUMMARY

SAMPLING POINT	G102	G104	G107	G109	G112	X101	X102	X103	X105	X106	X107	X108
	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89	12-6-89
PARAMETER												
VOLATILES												
Vinyl Chloride	--	--	--	120.0	18.0	--	--	--	--	--	--	--
Chloroethane	--	--	--	33.0	--	--	--	--	--	--	--	--
Methylene Chloride	--	--	--	79.0	--	--	--	--	--	--	--	4.0 J
Acetone	--	--	--	--	--	84.0	62.0	140.0	120.0	100.0	150.0	6.0 J
1,1-Dichloroethene	--	--	--	1000.0 DJ	7.0	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--		5700.0 D	--	--	--	--	--	--	--	--
1,2-Dichloroethene(total)	--	--	--	10000.0 D	73.0	--	--	--	--	--	--	--
2-Butanone (MEK)	--	--	--	--	--	--	--	--	--	9.0 J	--	--
1,1,1-Trichloroethane	--	--	--	11000.0 D	--	--	--	--	--	--	--	--
Trichloroethene	--	--	4.0 J	370000.0 D	88000.0 D	7.0	6.0 J	--	--	4.0	--	6.0 J
1,1,2-Trichloroethane	--	--	--	92.0	--	--	--	--	--	--	--	--
2-Hexanone	--	--	--	--	--	--	--	--	--	--	--	61.0 B
Tetrachloroethene	--	--	--	4400.0 D	880.0 D	--	--	--	--	--	--	--
Toluene	--	--	--	150.0	27	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	20.0	3.0 J	--	--	--	--	--	--	1.0 J
Xylene(total)	--	--	--	87.0	11.0	--	--	--	--	--	--	6.0 J
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
SEMIVOLATILES												
4-Methylphenol	--	--	2.0 J	--	--	--	--	--	--	--	--	--
Benzoic acid	--	--	--	21.0 J	--	--	--	--	--	--	--	--
Naphthalene	--	--	3.0 J	2.0 J	1.0 J	350.0 J	26.0	--	--	--	--	15.0 J
2-Methylnaphthalene	--	--	2.0 J	--	--	340.0 J	--	--	--	--	--	--
Acenaphthylene	--	--	6.0 J	--	--	350.0 J	59.0	--	--	--	--	--
Acenaphthene	--	--	6	--	--	140.0 J	59	--	--	--	--	--
Dibenzofuran	--	--	2.0 J	--	--	840.0	--	--	--	--	--	--
Fluorene	--	--	2.0 J	--	--	290.0 J	--	--	--	--	--	--
Phenanthrene	--	--	6.0 J	0.3 J	1.0 J	8000.0 B	530.0 BJ	210.0 BJ	--	600.0 BJ	20.0 BJ	67.0 BJ
Anthracene	--	--	--	--	0.2 J	700.0 J	120.0 J	--	--	95.0 J	--	--
Di-n-Butylphthalate	--	--	--	--	--	44.0 BJ	110.0 BJ	100.0 BJ	68.0 BJ	39.0 BJ	--	150.0 BJ
Fluoranthene	--	--	--	--	2.0 J	7600.0 B	790.0 BJ	490.0 BJ	40.0 BJ	1300.0 B	66.0 BJ	170.0 BJ
Pyrene	--	--	--	--	2.0 J	4400.0 B	720.0 BJ	330.0 BJ	44.0 BJ	1200.0 BJ	83.0 BJ	190.0 BJ
Butylbenzylphthalate	--	--	--	--	--	61.0 BJ	61.0 BJ	88.0 BJ	--	--	120.0 BJ	130.0 BJ
Benzo(a)anthracene	--	--	--	--	--	3800.0 B	340.0 BJ	240.0 BJ	--	770.0 BJ	52.0 BJ	130.0 BJ
Chrysene	--	--	--	--	--	2500.0 B	270.0 BJ	140.0 BJ	--	440.0 BJ	--	99.0 BJ
bis(2-Ethylhexyl)phthalate	--	2.0 J	4.0	2.0 J	--	450.0 BJ	110.0 BJ	160.0 BJ	88.0 BJ	420.0 BJ	230.0 BJ	130.0 BJ
Di-n-Octylphthalate	--	--	--	--	--	43.0 BJ	--	--	--	--	39.0 BJ	54.0 BJ
Benz[illegible]fluoranthene	--	--	--	--	--	3600.0	320.0 J	170.0	--	1100.0 J	--	--
Benz[illegible]fluoranthene	--	--	--	--	--	1600.0	--	--	--	--	--	--

Benzo(a)pyrene	--	--	--	--	--	1500.0	230.0 J	--	--	470.0 J	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	420.0 J	--	--	--	--	--	--
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
PESTICIDES												
beta-BHC	--	--	--	--	--	178.0	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--	0.8 J	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--	--	--	0.9 J	--
Dieldrin	--	--	--	--	--	--	--	3.6 J	1.0 J	--	--	--
	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
INORGANICS												
Aluminum	177.0 B	1700.0	100.0 B	NA	146.0 B	4300.0	8600.0	8000.0	5800.0	10000.0	8800.0	12800.0
Antimony	--	--	--	NA	--	0.4 B	--	--	--	--	0.3 B	0.3 B
Arsenic	--	3.0 B	2.6 B	NA	--	3.4	6.7	3.9	2.9	9.3	4.2	5.3
Barium	73.0 B	153.0 B	69.0 B	NA	56.0 B	40.0 B	75.0	83.0	44.0 B	180.0	100.0	140.0
Beryllium	--	--	--	NA	--	0.3 B	0.9	0.6 B	0.3 B	0.6 B	0.6	1.2
Cadmium	1.8 B	1.7 B	--	NA	--	1.8	12.0	--	--	0.8 B	6.1	0.5 B
Calcium	112000.0	167000.0	89800.0	NA	83400.0	5300.0	29400.0	6400.0	39500.0	36000.0	24200.0	6500.0
Chromium	6.8 B	10.0 B	3.6 B	NA	4.5 B	220.0	2300.0	21.0	17.0	130.0	460.0	16.0
Cobalt	--	7.4 B	--	NA	--	4.4 B	15.0	4.2 B	6.0 B	7.1 B	9.6	5.5 B
Copper	--	3.7 B	--	NA	--	7300.0	53000.0	300.0	260.0	1000.0	19000.0	57.0
Iron	129.0	9500.0	735.0	NA	65.0 B	9700.0	18000.0	12600.0	13500.0	17200.0	17100.0	19000.0
Lead	--	8.9	--	NA	2.7 B	45.0	11.0	10.0	8.6	25.0	75.0	40.0
Magnesium	51000.0	67700.0	35800.0	NA	33300.0	12500.0	8300.0	3100.0	19700.0	13300.0	12700.0	2800.0
Manganese	800.0	1400.0	940.0	NA	836.0	380.0	690.0	180.0	370.0	350.0	540.0	340.0
Mercury	--	--	--	NA	--	--	--	--	--	--	--	0.1
Nickel	--	7.1 B	6.4 B	NA	--	16.0	28.0	9.1 B	12.0	14.0 B	58.0	13.0
Potassium	2600.0 B	4200.0	13000.0	NA	1400.0	220.0 B	470.0 B	570.0 B	420.0 B	410.0 B	1100.0	1700.0
Selenium	--	--	--	NA	--	0.4 N	--	--	--	--	0.4 B	0.4 B
Silver	--	--	--	NA	--	2.3	15.0	--	--	--	6.7	--
Sodium	21500.0	18700.0	19700.0	NA	7100.0	--	67.0 B	62.0 B	59.0 B	160.0 B	120.0 B	38.0 B
Thallium	--	--	--	NA	--	0.1 B	0.2 B	0.1 B	0.1 B	0.2 B	0.1 B	0.1 B
Vanadium	--	10.0 B	--	NA	--	9.6 B	22.0	15.0	11.0 B	18.0	18.0	25.0
Zinc	27.0	18.0 B	12.0 B	NA	19.0 B	330.0	770.0	53.0	35.0	130.0	320.0	83.0
Cyanide	--	--	--	NA	--	--	--	--	--	--	--	0.9
Sulfate	76000.0	56000.0	--	NA	60000.0	--	--	--	--	--	--	--
	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

-- Indicates compound was analyzed but was below detection limits
NA Indicates compound was not analyzed

U.S.E.P.A. DEFINED DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
• J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
• C	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
• B	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
• D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values are flagged with the "D" flag.	not used

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference
• A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
• M	not used	Duplicate injection (a QC parameter) not met.
• N	not used	Spiked sample (a QC parameter) recovery not within control limits.
• S	not used	The reported value was determined by the Method of Standard Additions (MSA).
• W	not used	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
• *	not used	Duplicate analysis (a QC parameter) not within control limits.
• +	not used	Correlation coefficient for MSA (a QC parameter) is less than 0.995.

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• P	not used	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
• CV	not used	Method qualifier indicates analysis by Cold Vapor AA.
• AV	not used	Method qualifier indicates analysis by Automated Cold Vapor AA
• AS	not used	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
• T	not used	Method qualifier indicates Titrimetric analysis.
• NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
• R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section discusses data and information that apply to potential migration pathways and targets of compounds that may be attributable to the Revere Ware Corporation facility.

The four migration pathways of concern are groundwater, surface water, air, and on-site exposure.

5.2 GROUNDWATER

Results of SSI monitor well samples indicate contaminates present in groundwater on site (G109 trichloroethene 370,000 ppb, -1,1,1 trichloroethane 11,000 ppb). Based on groundwater sample results the potential exists for contaminants to migrate off-site to municipal and private wells. Groundwater flow is toward the northwest.

In the Clinton area municipal, industrial, and domestic groundwater supplies are available from unconsolidated sand and gravel deposits (aquifer of concern) in the buried Mahomet Valley where drift deposits as much as 400 feet thick are present. The drift, composed primarily of sands, gravels, and discontinuous clay lenses is underlain by Pennsylvanian bedrock consisting of sandstones, limestones and shales.

The Clinton Public Water Supply consists of five wells serving approximately 8,014 residents. The wells are finished

in sands and gravels (aquifer of concern) and range in depth from 345 to 388 feet. The nearest municipal well is Clinton PW #7, located approximately 1,800 feet northwest of Revere Ware and completed to a depth of 345 feet in sand and gravel.

The nearest private well, as determined by Illinois State Water Survey well log records, is located approximately 3/4 mile southwest of the site in Section 3, Township 19 North , Range 2 East. The well was completed to a depth of 93 feet and finished in sand. The approximate number of private well users of the aquifer of concern is 375 people located within a three mile radius of the site.

5.3 SURFACE WATER

Results of the SSI soil/sediment sampling event revealed contaminants present in soils on site (X103 copper 300 ppm, benzo(b)fluoranthene 170 ppm. X102 copper 53,000 ppm, chromium 2300 ppm). The potential exists for contaminants to migrate to Coon Creek. Sample X103 was taken from the NPDES outfall where the north pond empties into an unnamed tributary of Coon Creek.

An unnamed tributary to Coon Creek flows through the Revere Ware property. The stream is dammed to create two ponds south of the manufacturing building. The tributary discharges into Coon Creek, which flows into Salt Creek a tributary of the Sangamon River. Salt Creek and the Sangamon River are used for recreational purposes.

5.4 AIR

There is no documented data suggesting air contamination. During the sampling of monitoring well numbers G107, G112, G109 and G102, the HNu read levels above background.

5.5 ON-SITE EXPOSURE

The Revere Ware facility is surrounded by a secure fence restricting access by the public. A guardhouse is located at the northwest entrance to the facility with full-time supervision provided. All visitors are required to sign in and sign out for approval of the nature of their visit. The creek which passes through and around the Revere Ware property is accessible to the public at the west boundary line of the site. The creek flows from the east, around part of the Revere Ware property, then flows through the property and is dammed to create two ponds. The south pond overflows into the north pond which discharges on the west end of the site. Both ponds are within the secured area, however, the access to the creek leading out of the north pond is not restricted after the point of discharge.

6 BIBLIOGRAPHY

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Illinois State Water Survey, Area Well Logs for Clinton, Illinois, DeWitt County.

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Illinois State Water Survey, Yields of Wells in Pennsylvanian Mississippian Rocks in Illinois, Report of Investigation No. 55, 1966.

University of Illinois, Agricultural Experiment Station, Soil Report No. 67, DeWitt County Soils, Urbana, Illinois June 1940.

U.S. Geological Survey, 1979, Clinton Quadrangle, Illinois, 7.5 Minute Series.

U.S. Geological Survey, 1980, Kenney Quadrangle, Illinois, 7.5 Minute Series.

U.S. Geological Survey, 1979, Maroa Quadrangle, Illinois, 7.5 Minute Series.

U.S. Geological Survey, Waynesville East Quadrangle, Illinois, 7.5 Minute Series.

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX B

SITE SURFACE WATER MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX C

U.S.EPA FORM 2070-13

Site Inspection Report

APPENDIX D

TARGET COMPOUND LIST

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION
01 STATE: IL | 02 SITE NUMBER: 005078274

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Revere Ware Corporation	South Sherman Street				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Clinton	IL	61727	DeWitt	039	21

09 COORDINATES: LATITUDE 40 08 00.0 | LONGITUDE 088 57 00.0

10 TYPE OF OWNERSHIP (Check one)
■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 12, 4, 89 (MONTH DAY YEAR)
02 SITE STATUS: ■ ACTIVE ☐ INACTIVE
03 YEARS OF OPERATION: 1968 (BEGINNING YEAR) | Active (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Karen Petefish	LSCT	IEPA/LPC	(217) 782-6760
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Kenneth Corkill	EPS III	IEPA/LPC	(217) 782-6760
Greg Dunn	EPS II	IEPA/LPC	(217) 782-6760
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Tony Taubert	chief chemist/section leader		( )
John L. Cherill, E.A.	supervisor ENVIRONMENTAL Control Engineer	Corning Inc.	( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	8:00 AM	~50° and cloudy

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Tony Taubert	Revere Ware Incorporated	(217) 935-7242

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Karen Petefish	IEPA	RPMS	524-4851	3, 21, 90 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005078274

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ■ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ E. SLURRY
- ■ F. LIQUID
- ☐ G. GAS
- ☐ D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS UNKNOWN
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ■ A. TOXIC
- ■ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ■ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
(SOL)	SOLVENTS	UNKNOWN		Two man made ponds and two acid lagoons on site contain heavy metals and solvents
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
(ACD)	ACIDS	UNKNOWN		
BAS	BASES			
(MES)	HEAVY METALS	UNKNOWN		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES					

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Screening Site Inspection, Dec. 5, 1989, Lab results
Illinois EPA - LPC - Division file - Preliminary Assessment, 2/1/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	D0507827 4

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 8,014
02 □ OBSERVED (DATE _____) ■ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
Clinton, population ~ 8,014, relies on five municipal wells for their primary source of drinking water. Rural residents rely private wells for their potable water. The primary Aquifer of concern is the quarternary Aquifer (sands/gravels).

01 ■ B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
Revere Ware Incorporated has a history of releasing contaminants into the unnamed tributary of Coon Creek that have exceeded the IEPA safety limits.

01 □ C CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
None documented / During groundwater sampling events the HNU read elevated levels of organic vapors

01 □ D FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED _____
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED 8,014
02 ■ OBSERVED (DATE 12/5/89) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
The facility is fenced on All sides thereby restricting access to the public. A guardhouse is provided on the Northwest side of the site with full-time supervision Available. The Creek flowing through the site is accessible to the public on the west side After the point of discharge from the North pond.

01 ■ F CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED UNKNOWN
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
Areas of concern at the Revere Ware facility are two man-made ponds which potentially contain elevated levels of heavy metals and two surface impoundments on the North end of the site which contain potential hazardous waste.

01 ■ G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 8635
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
The city of Clinton relies on five municipal wells for their primary source of drinking water. Rural residents rely on private wells for potable water.

01 □ H WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED _____
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ I POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED 8635
02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION
(Clinton's population plus An estimated value of rural populations)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005018274

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J DAMAGE TO FLORA — 02 □ OBSERVED (DATE _____) ■ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION

refer to E: Direct Contact

01 ■ K DAMAGE TO FAUNA — 02 □ OBSERVED (DATE _____) ■ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

refer to E: Direct Contact - concern could be for fauna utilizing the unnamed tributary to Coon Creek

01 □ L CONTAMINATION OF FOOD CHAIN — 02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ M UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

refer to F: Contamination of Soil

01 ■ N DAMAGE TO OFFSITE PROPERTY — 02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION

Refer to E: Direct Contact

01 □ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ P ILLEGAL/UNAUTHORIZED DUMPING — 02 □ OBSERVED (DATE _____) □ POTENTIAL □ ALLEGED
04 NARRATIVE DESCRIPTION

refer to F: Contamination of Soil

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

South of the manufacturing building is an area where pond sediments were deposited after dredging. Pond sediments potentially contained heavy metals and solvent material.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 8635

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA site reconnaissance inspection
IEPA Superfund file - LPC file Room

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005078274

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
■ A. NPDES	0002356	1/10/85	7/1/89	NPDES Permit for discharges of storm and non-contact cooling water and metal finishing process
B. UIC				waste water to the ditch
C. AIR				
D. RCRA				
E. RCRA INTERIM STATUS				
F. SPCC PLAN				
G. STATE (Specify)				
H. LOCAL (Specify)				
I. OTHER (Specify)				
J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
■ A. SURFACE IMPOUNDMENT	UNKNOWN		☐ A. INCENERATION	■ A. BUILDINGS ON SITE
☐ B. PILES			☐ B. UNDERGROUND INJECTION	[27]
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	06 AREA OF SITE
☐ F. LANDFILL			☐ F. SOLVENT RECOVERY	~70 Acres
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY	
☐ H. OPEN DUMP			☐ H. OTHER (Specify)	
☐ I. OTHER (Specify)				

07 COMMENTS
Two manmade ponds and two acid lagoons contain heavy metals and solvents.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ■ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
Two acid lagoons were created to accept concentrated waste acid solutions and copper plating waste solutions. The original liners were an asphalt/limestone liners. In 1976 they were replaced, due to their inadequate condition, by hypalon liners. The contents of the lagoons and the liners were taken out and disposed of, off-site in 1981. The creek leading through the site and around the site has received various contaminants from the north and south ponds located south of the old Tube Mill.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ■ NO

02 COMMENTS
The site is fenced and a guardhouse is provided at the entrance to the facility with full-time supervision provided. However, the creek receiving discharges from a manmade ponds on-site is accessible to the public.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

* the # of buildings determined by the population of Clinton divided the # of persons per household (2.62) plus an estimated 200 buildings

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005078274

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ■	A. ☐	B. ☐	C. ☐	A. _____ (mi)
NON-COMMUNITY	C. ☐	D. ☐	D. ☐	E. ☐	F. ☐	B. ~ 1/2 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

■ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~ 9635

03 DISTANCE TO NEAREST DRINKING WATER WELL ~ 1/2 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
300 (ft)	to northwest	300 (ft)	_____ (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

Municipal wells range from 300-350 feet deep and supply a population of ~8014
#3 well used for drinking - Active - 340 ft. depth
#6 well used for drinking - Active - 345 ft. depth
#7 well used for drinking - Active - 345 ft. depth
#8 well used for drinking - Active - 388 ft. depth
#9 well used for drinking - Active - 346 ft. depth
- All wells in T 20N - R2E in Section 34

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ■ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
unnamed tributary to Coon Creek	☐	on-site (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 4662 NO. OF PERSONS	B. 8214 NO. OF PERSONS	C. 8400 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: < 1/8 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF SITE BUILDING
* 3258 see sources of information	approx. 660 feet

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, dense suburban area)

The population of Clinton is 8,014. The average person per household is 2.62. The number of buildings and houses within the area is estimated by using a house count on a topographic map.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	005078274

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

A $10^{-6} - 10^{-8}$ cm sec ■ B $10^{-4} - 10^{-6}$ cm/sec ☐ C $10^{-4} - 10^{-3}$ cm/sec ☐ D GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A IMPERMEABLE (Less than 10^{-6} cm sec) ☐ B RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm sec) ■ C RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm sec) ☐ D VERY PERMEABLE (Greater than 10^{-2} cm sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
400 (ft)	UNKNOWN (ft)	UNKNOWN	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
35 (in)	3.2 (in)	1-3 %		3%

09 FLOOD POTENTIAL

SITE IS IN ___ YEAR FLOODPLAIN

10 SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A _____ (mi)

OTHER: B ~ DNE (mi)

12 DISTANCE TO CRITICAL HABITAT (endangered species)

_____ (mi)

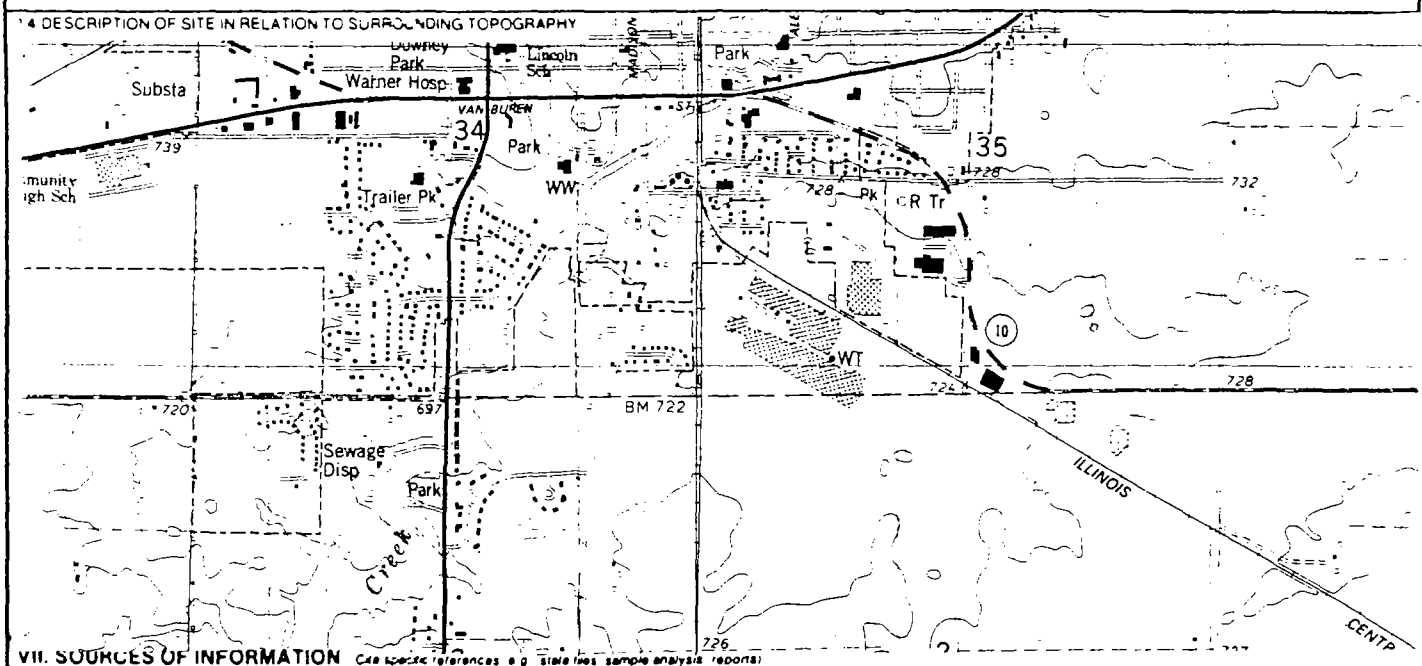
ENDANGERED SPECIES _____

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A ~1/8 (mi)	B ~1/8 (mi)	C _____ (mi)	D ~1/8 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis reports)

Topographic Map for Clinton Quadrangle

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	00507827

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	Inorganics to Champaign Organics to Springfield IEPA LABS	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	7	Inorganics to Champaign Organics to Springfield IEPA LABS	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
(11.7 Lamp- HNu) Photo Ionization Device	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ● GROUND ● AERIAL

02 IN CUSTODY OF IEPA-Land Pollution Control
Name of organization or individual

03 MAPS ● YES ○ NO

04 LOCATION OF MAPS Illinois Environmental Protection Agency - LPC files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

Site Inspection - conducted on December 5, 1989 by IEPA-LPC personnel
Illinois EPA - Land Division files

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	005071274

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME Corning Glass Works		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P O Box, RFD #, etc.)		11 SIC CODE	
05 CITY Corning	06 STATE NY	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P O Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P O Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P O Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	

III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (If applicable, list most recent first)		
01 NAME Revere Copper & Brass Inc		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD #, etc.) 605 third Avenue		04 SIC CODE	03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE
05 CITY New York	06 STATE NY	07 ZIP CODE 10158	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P O Box, RFD #, etc.)		04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005071274

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE
	-	

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005078274

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
N/A			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: IND | 02 SITE NUMBER: 005078274

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ■ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION On Oct. 21, 1982, the National Response Center was notified of an accidental spill of the facility's storage tank (D002/D007 waste). Immediate steps were taken to contain and clean-up the spill.

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005078274

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ S CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ T BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ U GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ V BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ W GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ X FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Y LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Z AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 1 ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 2 POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 3 OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	005079274

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ■ YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

February 15, 1984	Company notifies Agency that, due to changes in regulations and Company's method of operation, Company no longer comes within definition of TSD Facility.
April 23, 1984	Company responds to Agency request for financial assurance by pointing out that it no longer is a TSD Facility.
March 1, 1984	Inspection.
June 21, 1984	Agency's Compliance Inquiry Letter refers to violation of requirements applicable only to TSD Facilities.
July 21, 1984	Company responds to Agency letter and points out that TSD Facility requirements are inapplicable.
October 12, 1984	Inspection.
November 13, 1984	Agency's Compliance Inquiry Letter refers to violation of requirements applicable only to TSD Facilities.
November 29, 1984	Company responds to Agency letter, points out that TSD Facility requirements are inapplicable, and requests that legal counsel be contacted if the Agency desires to discuss the point further.
January 31, 1985	Agency's Pre-enforcement Conference Letter refers to violation of requirements applicable only to TSD Facilities.
March 6, 1985	At Pre-enforcement Conference, Company states it is unreasonable to apply closure procedures to facility simply because of change from long term to short term storage. Company and Agency agree that Company's obligations will be satisfied by Company's submission, by April 1, of closure plan for implementation (subject to Agency comments) during Company's July maintenance shut down.
March 27, 1985	Company submits closure plan providing, among other things, for implementation between 6/29 -- 7/14. Transmittal letter confirms understanding that after implementation Company's status will be that of generator
August 1, 1985	Company's letter advises Agency of implementation of closure plan
August 28, 1985	Company's letter responds to Agency's form letter regarding closure request evaluation by stating Company has no closure request pending
November 1, 1985	Agency states that Company's closure plan "submitted August 5, 1986" is inadequate and demands resubmission
December 10, 1985	Company's legal counsel responds to Agency's November 1 letter and refers to Company's implementation of closure as agreed at March 6 meeting
July 17, 1986	Inspection
October 15, 1986	Agency's Pre-enforcement Conference Lett-- alleges, among other things, failure t submit closure plan 180 days before cl and failure to resubmit closure plan

III. SOURCES OF INFORMATION *(Cite specific references, e g state files sample analysis, reports)*

IEPA - LPC Division File

TARGET COMPOUND LIST

Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. 1,2-dichloroethene (total)	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. bromoform	5	5
26. 2-hexanone	10	10
27. 4-methyl-2-pentanone	10	10
28. 1,1,2,2-tetrachloroethane	5	5
29. tetrachloroethene	5	5
30. toluene	5	5
31. chlorobenzene	5	5
32. ethylbenzene	5	5
33. styrene	5	5
34. total xylenes	5	5

CRDL - Contract Required Detection Limit

DRINKING WATER SAMPLES -- In the case of drinking water samples, the Lab can be requested to report the instrument detection limit which is lower than the CRDL for VOC analysis. This request must be made at the time of scheduling since more samples will be required by the Lab. (See footnote on previous page).

Base/Neutral Target Compounds

Compound		Water CRDL	Soil/Solid CRDL
1.	Hexachloroethane	10 ug/l	330 ug/kg
2.	Bis (2-chloroethyl) ether	10	330
3.	Benzyl Alcohol	10	330
4.	Bis (2-chloroisopropyl) ether	10	330
5.	N-nitrosodi-n-propylamine	10	330
6.	Nitrobenzene	10	330
7.	Hexachlorobutadiene	10	330
8.	2-Methylnaphthalene	10	330
9.	1,2,4-trichlorobenzene	10	330
10.	Isophorone	10	330
11.	Naphthalene	10	330
12.	4-Chloroaniline	10	330
13.	Bis (2-chloroethoxy) methane	10	330
14.	Hexachlorocyclopentadiene	10	330
15.	2-chloronaphthalene	10	330
16.	2-Nitroaniline	50	1600
17.	Acenaphthylene	10	330
18.	3-Nitroaniline	50	1600
19.	Acenaphthene	10	330
20.	Dibenzofuran	10	330
21.	Dimethylphthalate	10	330
22.	2,6-Dinitrotoluene	10	330
23.	Fluorene	10	330
24.	4-Nitroaniline	50	1600
25.	4-Chlorophenyl-phenyl ether	10	330
26.	2,4-Dinitrotoluene	10	330
27.	Diethylphthalate	10	330
28.	N-Nitrosodiphenylamine	10	330
29.	Hexachlorobenzene	10	330
30.	Phenanthrene	10	330
31.	4-Bromophenyl-phenyl ether	10	330
32.	Anthracene	10	330
33.	Dibutylphthalate	10	330
34.	Fluoranthene	10	330
35.	Pyrene	10	330
36.	Butyl benzyl phthalate	10	330
37.	Bis (2-ethylhexyl) phthalate	10	330
38.	Chrysene	10	330
39.	Benzo (a) anthracene	10	330
40.	3,3'-Dichlorobenzidene	20	660
41.	Di-n-octyl phthalate	10	330
42.	Benzo (b) fluoranthene	10	330
43.	Benzo (k) fluoranthene	10	330
44.	Benzo (a) pyrene	10	330
45.	Indeno (1,2,3-cd) pyrene	10	330
46.	Dibenzo (a,h) anthracene	10	330
47.	Benzo (g,h,i) perylene	10	330
48.	1,2-Dichlorobenzene	10	330
49.	1,3-Dichlorobenzene	10	330
50.	1,4-Dichlorobenzene	10	330

Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorophenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600

Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. alpha-Chlorodane	.5	80.0
19. gama chlorodane	.5	80.0
20. Toxaphene	.50	80.0
21. Arochlor-1016	1.0	160.0
22. Arochlor-1221	.50	80.0
23. Arochlor-1232	.50	80.0
24. Arochlor-1242	.50	80.0
25. Arochlor-1248	.50	80.0
26. Arochlor-1254	1.0	160.0
27. Arochlor-1260	1.0	160.0

Inorganic Target Compounds

Metals Analyses (CRDL)-ug/l*	
Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Calcium	5000
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	5
Magnesium	5000
Manganese	15
Mercury	0.2
Nickel	40
Potassium	5000
Selenium	5
Silver	10
Silver	5000
Thallium	10
Vanadium	50
Zinc	20

Other Inorganics
Cyanide
Sulfide
Phenols
Nitrogen-Ammonia
Nitrogen, Total Kjeldahl
Nitrogen-Nitrate
Boron
pH
Sulfate
Chloride

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illutrated in the example below:

For lead:

Method in use -- ICP
Instrument Detection Limit (IDL) = 40
Sample Concentration = 85
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

APPENDIX E

IEPA SITE PHOTOGRAPHS

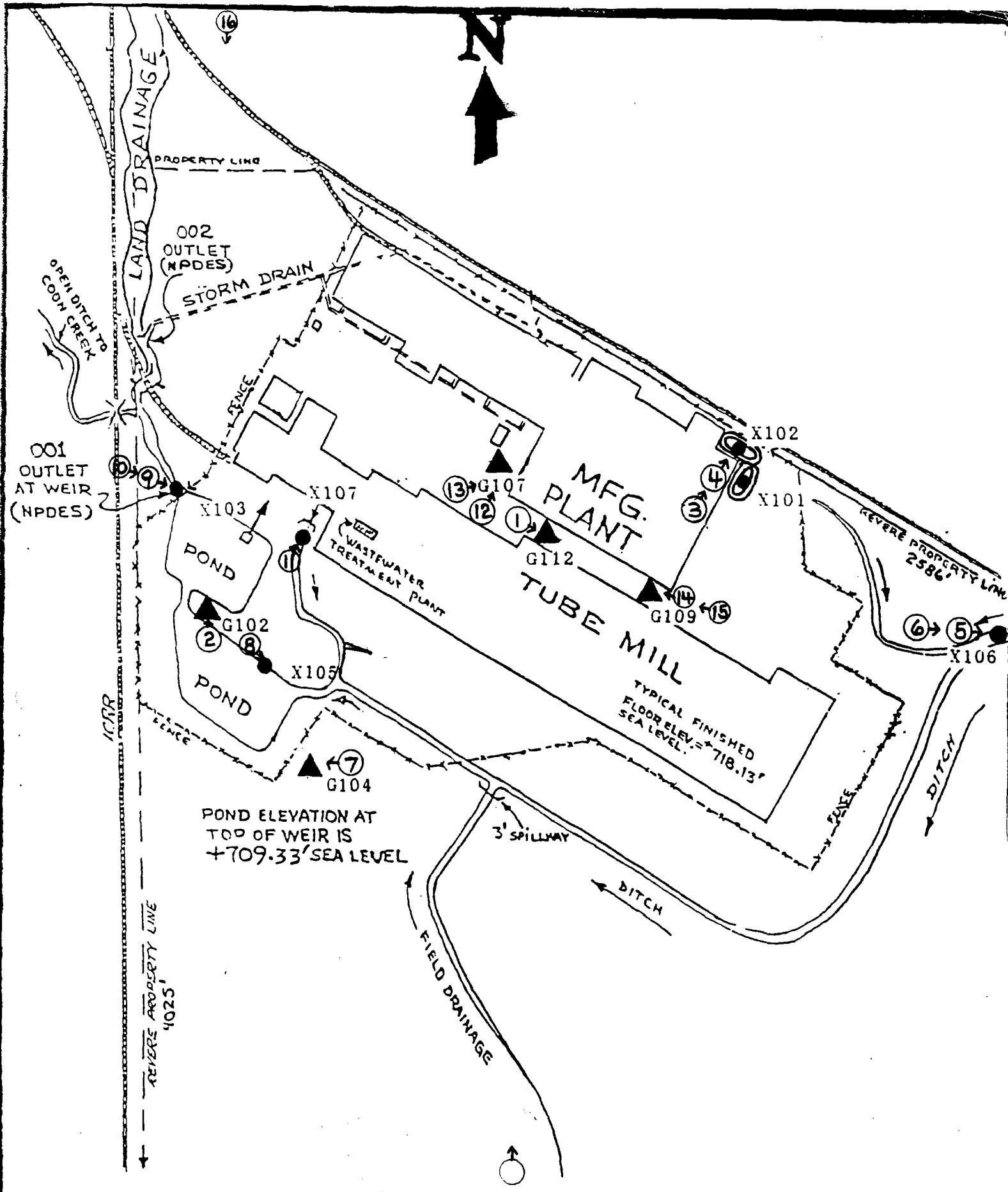


Photo Location Map

REVERE WARE CORPORATION

DATE: Dec. 5, 1989

TIME: 10:25A

Photograph by:

Karen Petefish

#1

Location:

Revere Ware Corp

Clinton, IL.

Comments: Picture taken toward

G112 - monitoring well on south side of manufacturing building

DATE: Dec. 5, 1989

TIME: 8:45 A

#2

Photograph by:

Karen Petefish

Location: Revere Ware

Clinton, IL.

Comments: Picture taken toward

G102 - monitoring well south of northern most beaver pond (south end of site)

DATE: Dec. 5, 1989

TIME: 1:38p

Photograph by:
Karen Petefish

#3

Location:
Revere Ware Corp
Clinton, IL.

Comments: Picture taken toward
X102 - old acid
lagoon

DATE: Dec. 5, 1989

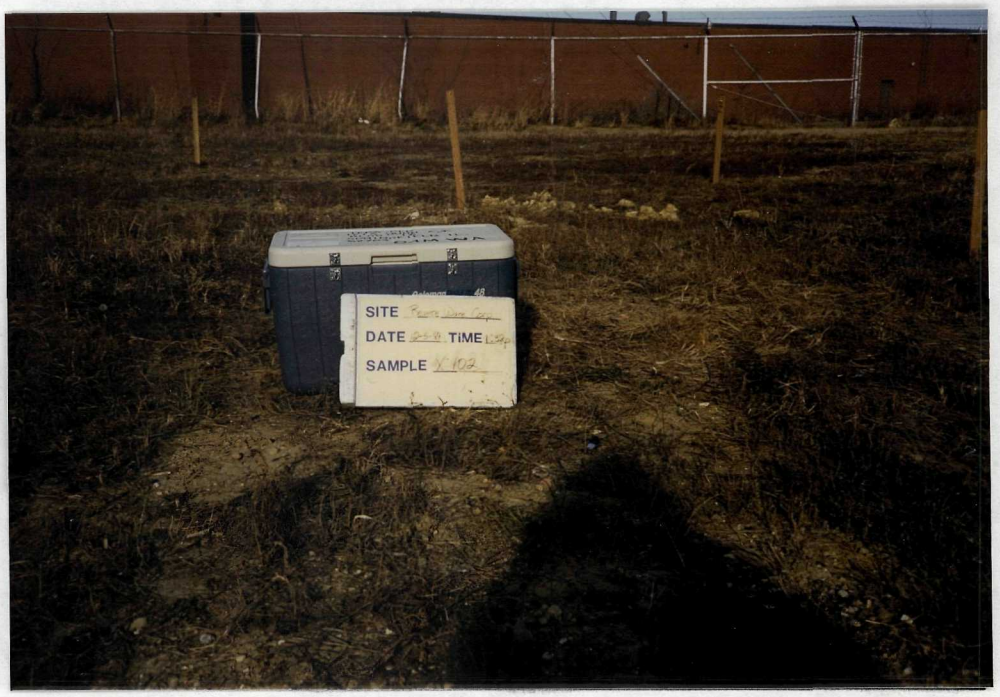
TIME: 1:38p

#4

Photograph by:
Karen Petefish

Location: Revere Ware
Clinton, IL

Comments: Picture taken toward
X102 - old acid
lagoon



IL 822-0002

DATE: Dec. 5, 1989

TIME: 2:50p

Photograph by:
Karen Petefish
#5

Location:
Revere Ware
Clinton, IL

Comments: Picture taken toward X106 - background sample (sediment) - northeast end of site

DATE: 12-5-89

TIME: 2:50p
#6

Photograph by:
Karen Petefish

Location: Revere Ware Corp, Clinton, IL

Comments: Picture taken toward X106 -: background sample (sediment) Northeast end of site.

IL 332-0003

DATE: Dec. 5, 1989

TIME: 4:00p

Photograph by:

Ken Corkill

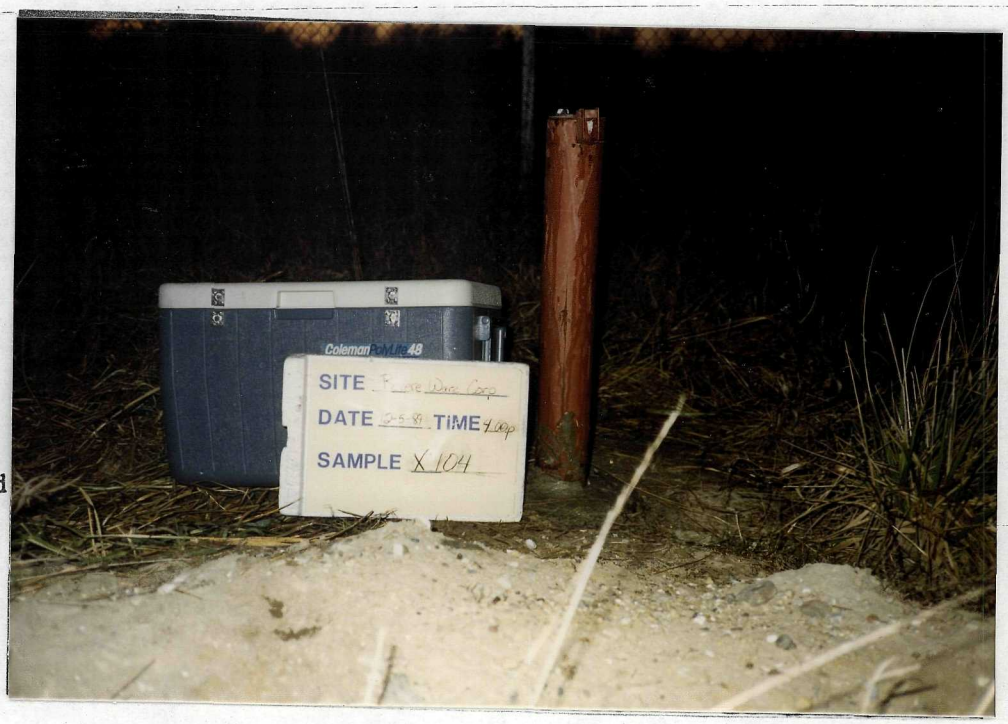
#7

Location:

Revere Ware

Clinton, IL

Comments: Picture taken toward G104 - monitoring well - east of southern most beaver pond



DATE: Dec. 5, 1989

TIME: 5:00p

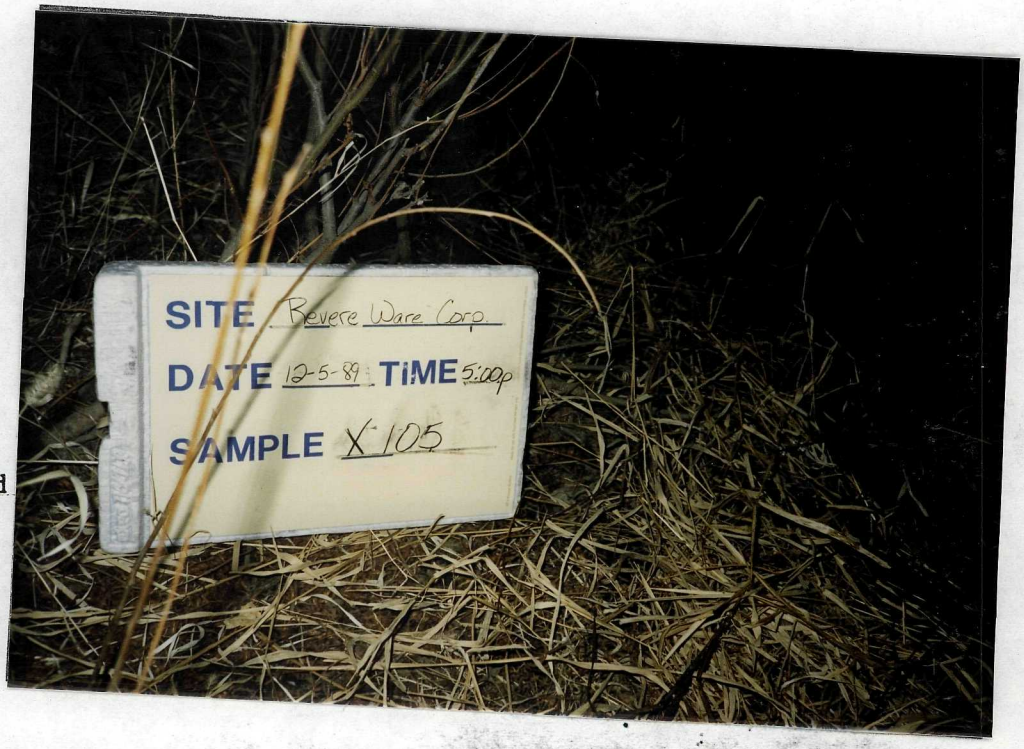
#8

Photograph by:

Karen Petefish

Location: Revere Ware - Clinton, IL

Comments: Picture taken toward X105 - south beaver pond - sediment sample



DATE: Dec. 5, 1989

TIME: 4:02p

Photograph by:

Karen Petefish

#9

Location:

Revere Ware Corp.

Clinton, IL

Comments: Picture taken toward

X103 - sediment sample at outfall by beaver pond - west end of site

DATE: Dec. 5, 1989

TIME: 4:02p

#10

Photograph by:

Karen Petefish

Location: Revere Ware

Clinton, IL

Comments: Picture taken toward

X103 - sediment sample at outfall from beaver pond - west end of site

IL 222-0069

DATE: Dec. 5, 1989

TIME: 5:30p

Photograph by:

Karen Petefish

#11

Location:

Revere Ware Corp

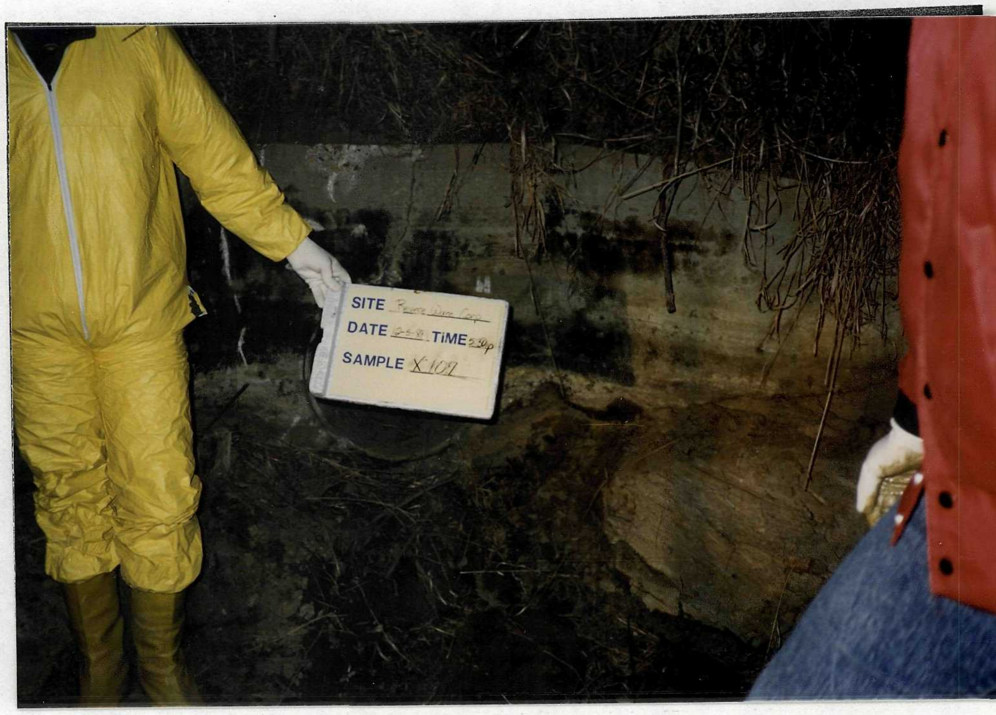
Clinton, IL

Comments: Picture taken toward

X107 - ditch

southwest of

distribution center



DATE: Dec. 5, 1989

TIME: 5:50p

#12

Photograph by:

Karen Petefish

Location: Revere Ware

Clinton, IL

Comments: Picture taken toward

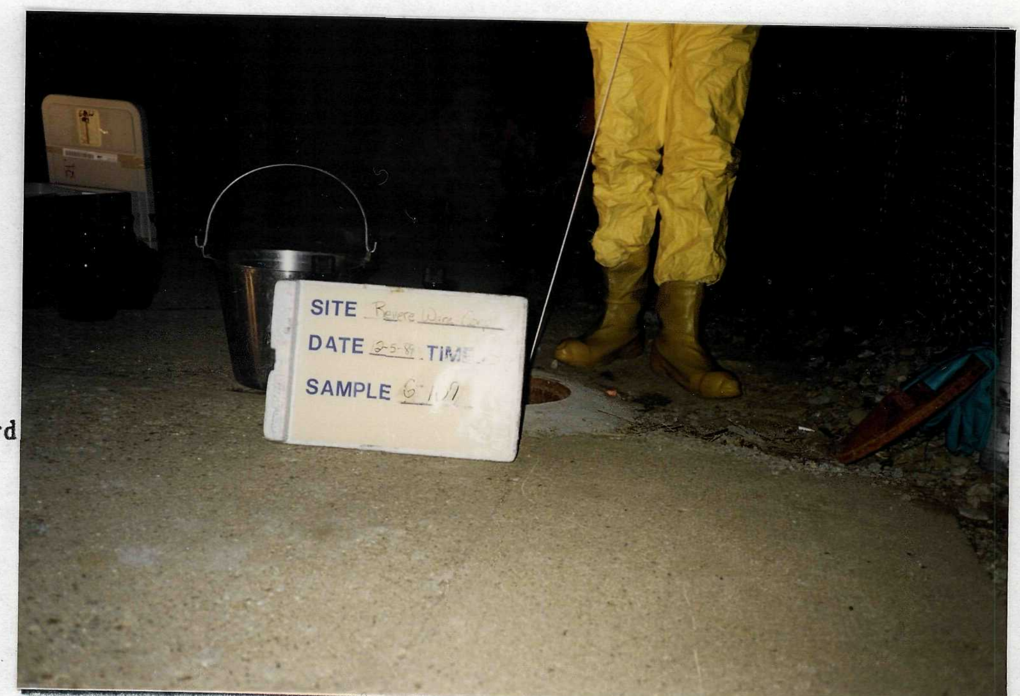
G107: monitoring

well by transformer

Along southwest

wall of manufacturing

bldg.



DATE: Dec. 5, 1989

TIME: 5:50p

Photograph by:

Karen Petefish

#13

Location:

Revere Ware

Clinton, IL

Comments: Picture taken toward G107 - monitoring well by transformer along southwest wall of manufacturing bldg.

DATE: Dec. 5, 1989

TIME: 6:10p

Photograph by:

#14

Karen Petefish

Location: Revere Ware

Clinton, IL.

Comments: Picture taken toward G109 - monitoring well Along southeast wall of manufacturing building

DATE: Dec. 5, 1989

TIME: 6:10p

Photograph by:
Karen Petefish

#15

Location:
Revere Ware Corp
Clinton, IL.

Comments: Picture taken toward G109 - monitoring well Along southeast WALL of manufacturing bldg.

DATE: Dec. 5, 1989

TIME: 6:40p

#16

Photograph by:
Karen Petefish

Location: Revere Ware
Clinton, IL

Comments: Picture taken toward soil background sample - west of facility in a residential yard

APPENDIX F

WELL LOGS

White Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFO ATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 4 in. Depth 129 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 50 Ft. — Seepage Tile Field ____
   Cess Pool ____ — Sewer (non Cast iron) ____
   Privy ____ — Sewer (Cast iron) ____
   Septic Tank 150 — Barnyard ____
   Leaching Pit ____ — Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed Oct 23-75
5. Permanent Pump Installed? Yes ____ Date ____ No ____
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes ✓ No ____ Type ____
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer Bake Monitor Model Number ____
   How attached to casing? Threaded to pipe
8. Well Disinfected? Yes ____ No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No ____

REMARKS:
We just put on pitless adapter as we don't install pumps.

IDPH 4.065
1/74 – KNB-1
(59571—12½M Sets—6-74)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Paul Prague Well No. ____
    Address Clinton Ill 61727
    Driller Ray DeMent License No. 92-68
11. Permit No. 142059 Date Oct 16-75
12. Water from Sand Formation 13. County DeWitt
    at depth 125 to 129 ft.
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot .020
    Sec. 1
    Twp. 19N
    Rge. 2E
    Elev. ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4½	O.D. 11.6 lbs.		

= SHOW LOCATION IN SECTION PLAT
300'S 100'E of NW/c SW

16. Size Hole below casing: ____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 95 ft. when pumping at 6 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	3	3
Yellow Clay	27	30
Blue Clay	95	125
Sand	4	129

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ray DeMent DATE 5/17/76

Yellow Copy – Well Contractor
ue Copy – Well Owner

DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50 FT Barnyard____
   Leaching Pit____ Manure Pile ✓
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed 7-5-89
5. Permanent Pump Installed? Yes____ Date____ No____
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes____ No____ Type____
7. Pitless Adapter Installed? Yes ✓ No____
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes____ No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No____

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Earl Holt Well No. 2
    Address Clinton, IL
    Driller Kay De Mint License No. 092-006561
11. Permit No. 193297 Date 7-5-89
12. Water from Sand (Formation) 13. County DeWitt
    at depth 84 to 93 ft. Sec. 3
    14. Screen: Diam. 4 in. Twp. 19N
    Length: 5 ft. Slot 30 Rge. 2E
    Elev.____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Steel 11# weight	0	90

SHOW LOCATION IN SECTION PLAT
300'S 100'E NW/4 SE

16. Size Hole below casing: 6 in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 5 gpm for 12 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	6	4
Yellow clay	22	26
Blue clay	63	84
Sand	4	93

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Kay De Mint DATE 7/5/89

IDPH 4.065
1/74 – KNB-1
(59571—12½M Sets—6-74)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUEST AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

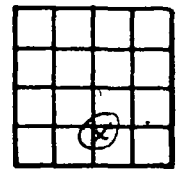
2. Distance to Nearest:
   Building 54 Ft. — Seepage Tile Field —
   Cess Pool — — Sewer (non Cast iron) —
   Privy — — Sewer (Cast iron) —
   Septic Tank 100+ — Barnyard —
   Leaching Pit — — Manure Pile —
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed OCT 22
5. Permanent Pump Installed? Yes ✓ Date OCT 22 No ____
   Manufacturer DELTA Type SUB Location ____
   Capacity 20 gpm. Depth of Setting 140 Ft.
6. Well Top Sealed? Yes ✓ No ____ Type ____
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer BAKER Model Number FBAM
   How attached to casing? ____
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ✓ No ____
10. Pressure Tank Size 220 gal. Type WX 251
    Location CELLAR
11. Water Sample Submitted? Yes ✓ No ____

REMARKS:

Co # 20831

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner WELBY CYRULIK (Dan's Country Market) Well No. 1
    Address Rt 2 CLINTON
    Driller G C MASHBURN JR License No. 102 193
11. Permit No. 136 231 Date OCT 15 1987
12. Water from SAND (Formation) at depth 270 to 290 ft.
13. County DEWITT
    Sec. 3,46
    Twp. 19N
    Rge. 2E
    Elev. ____
14. Screen: Diam. 5 in.
    Length: 8 ft. Slot 12



SHOW LOCATION IN SECTION PLAT

NW SW SE

COMMERCIAL

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	PVC SDR 21	+1	282

16. Size Hole below casing: — in.
17. Static level 126 ft. below casing top which is 1 ft. above ground level. Pumping level 132 ft. when pumping at 25 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	16	16
BLUE CLAY	40	56
BROWN DRIFT	3	59
GREY CLAY	109	168
DIRTY SAND	6	174
GREY CLAY	96	270
SAND	20	290
LIMESTONE AT 290		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED G C Mashburn Jr DATE Nov 4 87

IDPH 4.065
1/74 – KN.

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock____.
   Tubular ✓. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 40 Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank NOT INSTALLED Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes ✓ No____
4. Date well completed AUG
5. Permanent Pump Installed? Yes ✓ Date____ No____
   Manufacturer FEBTROL Type SUB Location____
   Capacity 15 gpm. Depth of Setting 160 Ft.
6. Well Top Sealed? Yes ✓ No____ Type____
7. Pitless Adapter Installed? Yes ✓ No____
   Manufacturer BAKER Model Number IBAM
   How attached to casing?____
8. Well Disinfected? Yes ✓ No____
9. Pump and Equipment Disinfected? Yes ✓ No____
10. Pressure Tank Size 42 gal. Type WX 203
    Location OLD
11. Water Sample Submitted? Yes____ No ✓

REMARKS:

Co. # 20922

IDPH 4.06
1/74 – KN

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner CROSS BROS Well No. 1
    Address RT 2 CLINTON
    Driller WASHBURN BROS License No. 162 00 1930
11. Permit No. 004056 Date 7/25/88
12. Water from SAND Formation at depth 272 to 291 ft.
13. County DEWITT
    Sec. 34
    Twp. 19N
    Rge. 2E
    Elev.____
14. Screen: Diam. 5 in.
    Length: 4 ft. Slot 12
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	PVC SDR 21	+1	287

SHOW LOCATION IN SECTION PLAT
NW, SW, SE

16. Size Hole below casing:____ in.
17. Static level 126 ft. below casing top which is 1 ft. above ground level. Pumping level 128 ft. when pumping at 15 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW C/AY	16	16
GREY C/AY	46	62
BROWN DRIFT	12	74
GREEN C/AY	4	78
GREY C/AY	172	250
SOFT SANDY C/AY	22	272
FINE TO MED SAND	19	291
LIMESTONE 291		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE Sept 22 1988

White Copy – Ill. Dept. of Fi[illegible], Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES. AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 128 ft.
   Curb material ____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock____.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

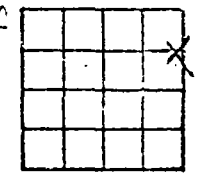
2. Distance to Nearest:
   Building 100 Ft. Seepage Tile Field ✓
   Cess Pool ✓ Sewer (non Cast iron) ✓
   Privy ✓ Sewer (Cast iron) ✓
   Septic Tank ✓ Barnyard ✓
   Leaching Pit ✓ Manure Pile ✓
3. Is water from this well to be used for human consumption?
   Yes ✓ No____
4. Date well completed Nov. 20 - 71
5. Permanent Pump Installed? Yes____ No ✓
   Manufacturer ____ Type ____
   Capacity 10 gpm. Depth of setting 90 ft.
6. Well Top Sealed? Yes ✓ No____
7. Pitless Adaptor Installed? Yes____ No ✓
8. Well Disinfected? Yes____ No ✓
9. Water Sample Submitted? Yes____ No ✓

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Ruth Shook Well No. ____
    Address Clinton Ill.
    Driller Ray Nesmith License No. 92-65
11. Permit No. 12917 Date Nov. 11-71
12. Water from sand & gravel (Formation) 13. County Dewitt
    at depth 116 to 128 ft.
    Sec. 4 1/4
    Twp. 19N
    Rge. 2E
    Elev. ____
14. Screen: Diam. 4 in.
    Length: 6 ft. Slot 025



SHOW LOCATION IN SECTION PLAT
NE SE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
	10.79 # Standard	+ 1	116

16. Size Hole below casing: 6 in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	4	4
Yellow Clay	25	29
Blue Clay	51	80
Brown shale	7	87
Gray shale	8	95
Hard Lime	21	116
Sand & gravel	12	128

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED ____ DATE ____

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock____.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

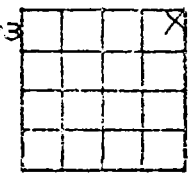
2. Distance to Nearest:
   Building____Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes ✓ No____
4. Date well completed Oct 15-72
5. Permanent Pump Installed? Yes____ No ✓
   Manufacturer ✓ Type ✓
   Capacity ✓ gpm. Depth of setting ✓ ft.
6. Well Top Sealed? Yes____ No ✓
7. Pitless Adaptor Installed? Yes____ No ✓
8. Well Disinfected? Yes____ No ✓
9. Water Sample Submitted? Yes____ No ✓

REMARKS:
No buildings of any Kind.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner William Gentry Well No.____
    Address Clinton R.R.
    Driller Ray McDermont License No. 93-65
11. Permit No. 16754 Date Sept 29-72
12. Water from Sand & gravel Formation 13. County DeWitt
    at depth 125 to 127 ft.
14. Screen: Diam. 6 in.
    Length 100 ft. Slot____
    Sec. 8
    Twp. 19N.
    Rge. 2E.
    Elev.____



SHOW LOCATION IN SECTION PLAT
NE NE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4"	11 lbs per ft.	1' above	
		to	127

16. Size Hole below casing: ✓ in.
17. Static level 80 ft. below casing top which is 1 ft. above ground level. Pumping level 110 ft. when pumping at 5 gpm for 6 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	1	2
yellow Clay	26	28
Blue Clay	97	125
Sand & gravel	2	127

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ray McDermont DATE Dec 5-72

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ✓. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 1000 Ft. — Seepage Tile Field ____
   Cess Pool ____ — Sewer (non Cast iron) ____
   Privy ____ — Sewer (Cast iron) ____
   Septic Tank ____ — Barnyard ____
   Leaching Pit ____ — Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed MAY 11
5. Permanent Pump Installed? Yes ✓ Date ____ No ____
   Manufacturer WEBTROL Type SUB Location ____
   Capacity 16 gpm. Depth of Setting 130 Ft.
6. Well Top Sealed? Yes ✓ No ____ Type ____
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer BAKER Model Number SNAPPY
   How attached to casing? CLAMP
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ✓ No ____
10. Pressure Tank Size 220 gal. Type 251 UG XTROL
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS: Co. # 20872

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner CLINTON LANDFILL Well No. 1
    Address RT 2 CLINTON
    Driller G E MASHBURN JR License No. 102 0019830
11. Permit No. 200 586 Date [redacted] 3/17/88
12. Water from SAND (Formation) at depth 238 to 281 ft.
13. County DEWITT
    Sec. 10.3-c
    Twp. 19 N
    Rge. 2 E
    Elev. ____
14. Screen: Diam. 5 in.
    Length: 4 ft. Slot 15

SHOW LOCATION IN SECTION PLAT
NE, NE, SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	PVC SDR 21	+2	277

16. Size Hole below casing: ____ in.
17. Static level 102 ft. below casing top which is 2 ft. above ground level. Pumping level 112 ft. when pumping at 60 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	16	16
GREY CLAY	57	73
SAND + GRAVEL	27	90
GREY CLAY	148	238
FINE SAND	26	264
MED TO COURSE SAND	17	281
STOPPED AT 281'		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED G E Mashburn Sr DATE May 25 1988

IDPH 4.06.
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth 241 ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock____.
   Tubular____. Gravel Packed____.
   d. Grout:

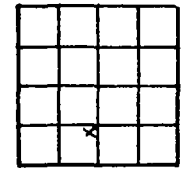
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building____Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank____ Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes____ No____
4. Date well completed 5-12-67
5. Permanent Pump Installed? Yes____ No____
   Manufacturer____ Type____
   Capacity____gpm. Depth of setting____ft.
6. Well Top Sealed? Yes____ No____
7. Pitless Adaptor Installed? Yes____ No____
8. Well Disinfected? Yes____ No____
9. Water Sample Submitted? Yes____ No____

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF2118 Year 1967
11. Property owner Max Walden Well No.____
    Address Clinton, Ill.
    Driller Woollen Bros License No.____
12. Water from____ 13. County De Witt
    Formation
    at depth____ to____ft.
14. Screen: Diam.____in.
    Length:____ft. Slot____
    Sec. 10, 5b
    Twp. 19N
    Rng. 2E
    Elev.____



SHOW LOCATION IN SECTION PLAT
Permit: 157'S & 600'W of NE/c SESW located by permit

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)

16. Size Hole below casing:____in.
17. Static level____ft. below casing top which is____ft. above ground level. Pumping level____ft. when pumping at____gpm for____hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Soil & yellow	0	18
Blue clay	18	45
Dry sand (no water)	45	51
Drift wood	51	54
Green clay	54	57
Grey hardpan	57	88
Sand & gravel 2"		88
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		over

SIGNED from driller's record DATE summer 1968

19. Number of persons served _____ livestock _____

20. Well: Initial cost _____ date of last repair _____ cost of repair _____

type of repair _____ frequency of repair _____

21. Pump: Initial cost _____ date of last repair _____ cost of repair _____

type of repair _____ frequency of repair _____

22. Treatment: Untreated ____ softened ____ chlorinated ____ iron removal _____

initial cost _____ estimated operating expense _____

23. Remarks: _____

24. Sketch:

Clay	88	121
Gravel (2 gpm)		121
Hardpan	121	165
Very fine sand	165	170
Gray clay	170	189
Brown clay	189	203
Gray cby	203	225
Drift	225	228
Coarse sand	228	241
Sand		

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ___. Bored ___. Hole Diam. ___ in. Depth ___ ft.
   Curb material ___. Buried Slab: Yes ___ No ___
   b. Driven ___. Drive Pipe Diam. ___ in. Depth ___ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ___.
   Tubular ✓. Gravel Packed ___.
   d. Grout:

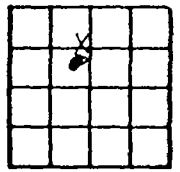
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. — Seepage Tile Field —
   Cess Pool — — Sewer (non Cast iron) —
   Privy — — Sewer (Cast iron) —
   Septic Tank 85 — Barnyard —
   Leaching Pit — — Manure Pile —
3. Well furnishes water for human consumption? Yes ✓ No ___
4. Date well completed SEPT 24
5. Permanent Pump Installed? Yes ✓ Date SEPT 24 No ___
   Manufacturer GOULDS Type SUB Location ___
   Capacity 20 gpm. Depth of Setting 85 Ft.
6. Well Top Sealed? Yes ✓ No ___ Type ___
7. Pitless Adapter Installed? Yes ✓ No ___
   Manufacturer BAKER Model Number SNAPPY
   How attached to casing? CLAMP
8. Well Disinfected? Yes ✓ No ___
9. Pump and Equipment Disinfected? Yes ✓ No ___
10. Pressure Tank Size 26 PR gal. Type AO SMITH V260
    Location BUILDING
11. Water Sample Submitted? Yes ___ No ✓

REMARKS: County #20796

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner MARTIN AUCTION CO Well No. 1
    Address RT 2 CLINTON
    Driller G C MASHBURN SR License No. 102 193
11. Permit No. 118 605 Date JUNE 24 1985
12. Water from SAND (Formation) 13. County DEWITT
    at depth 172 to 230 ft. Sec. 15 SE NE NW
14. Screen: Diam. 5 in. Twp. 19N
    Length: 4 ft. Slot 18 Rge. 2E
    Elev. ___



SHOW LOCATION IN SECTION PLAT
200'N & 300'W
(Auction Bldg.)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	SDR 21 PVC	+1	226

16. Size Hole below casing: — in.
17. Static level 56 ft. below casing top which is 1 ft. above ground level. Pumping level 57 ft. when pumping at 15 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	18	18
BLUE CLAY	26	44
BROWN DRIFT	2	46
GREEN CLAY	2	48
GREY CLAY	124	172
FINE SAND	23	195
COURSE SAND	35	230
NOT THRU SAND AT 230		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED H C Mashburn Sr DATE Oct 21 1985

IDPH 55
1/74 – NB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO D ERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ___. Bored ___. Hole Diam. ___ in. Depth ___ ft.
   Curb material ___. Buried Slab: Yes ___ No ___
   b. Driven ___. Drive Pipe Diam. ___ in. Depth ___ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ___.
   Tubular ✓. Gravel Packed ___.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 300 Ft. — Seepage Tile Field ___
   Cess Pool ___ — Sewer (non Cast iron) ___
   Privy ___ — Sewer (Cast iron) ___
   Septic Tank 300 ± — Barnyard ___
   Leaching Pit — — Manure Pile ___
3. Well furnishes water for human consumption? Yes ✓ No ___
4. Date well completed AUG
5. Permanent Pump Installed? Yes ✓ Date SEPT 3 No ___
   Manufacturer DELTA Type SUB Location ___
   Capacity 15 gpm. Depth of Setting 160 Ft.
6. Well Top Sealed? Yes ✓ No ___ Type ___
7. Pitless Adapter Installed? Yes ✓ No ___
   Manufacturer BAKER Model Number SNAPPY
   How attached to casing? CLAMP
8. Well Disinfected? Yes ✓ No ___
9. Pump and Equipment Disinfected? Yes ✓ No ___
10. Pressure Tank Size 42 gal. Type WX 203
    Location BLDG.
11. Water Sample Submitted? Yes ___ No ✓
REMARKS:

Co. # 20920

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner NANBEL CORP Well No. 1
    Address RR 1 CLINTON
    Driller MASHBURN BROS License No. 167 001930
11. Permit No. 002462 Date 6/2/88
12. Water from SAND Formation 13. County DEWITT
    at depth 285 to 320 ft. Sec. 23 26
    14. Screen: Diam. 4 in. Twp. 20N
    Length: 8 ft. Slot 12 Rge. 2E
    Elev. ___

SHOW LOCATION IN SECTION PLAT
SW, NE, SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	PVC	+1	312

16. Size Hole below casing: — in.
17. Static level 126 ft. below casing top which is 1 ft. above ground level. Pumping level 128 ft. when pumping at 15 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	18	18
GREY CLAY	62	80
SAND DIRTY	2	82
GREY CLAY	203	285
SAND	35	320
LIMESTONE 320		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE Sept 8 88

IDPH 4.06
1/74 – KN_ 1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED. MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 615, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 4 in. Depth 68 ft.
      Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
      Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 150 Ft. Seepage Tile Field ✓
   Cess Pool ✓ Sewer (non Cast iron) ✓
   Privy ✓ Sewer (Cast iron) ✓
   Septic Tank ✓ Barnyard 150
   Leaching Pit ✓ Manure Pile ✓
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed Oct 25-71
5. Permanent Pump Installed? Yes ✓ No ____
   Manufacturer Tait Type Sub.
   Capacity 10 gpm. Depth of setting 50 ft.
6. Well Top Sealed? Yes ✓ No ____
7. Pitless Adaptor Installed? Yes ✓ No ____
8. Well Disinfected? Yes ✓ No ____
9. Water Sample Submitted? Yes ____ No ✓

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Violet Best Well No. ____
    Address [illegible]
    Driller Ray McNeal License No. 92-68
11. Permit No. 17652 Date Oct 19-71
12. Water from sand (Formation) 13. County Knox
    at depth 60 to 68 ft. Sec. 32-16
14. Screen: Diam. 4 in. Twp. 20N
    Length: 4 ft. Slot .025 Rge. 3E
    Elev. ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
	standard 4" pipe		
	10.79		

SHOW LOCATION IN SECTION PLAT

~~SW NE~~ NW

32,6e according to house in platbook

16. Size Hole below casing: ✓ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 43 ft. when pumping at 10 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	4	4
Yellow Clay	26	30
Blue Clay	30	60
Sand & gravel	8	68

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ray McNeal DATE Dec. 6-71

White & Pink Copies:
Ill. Dept. of Public Health
Yellow Copy: Well Contractor
Golden Copy: Well Owner

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

1. Type of Well
   a. Bored_____ Hole Diam. 12 in. Depth 375 ft
   Buried Slab: Yes___ No___
   b. Driven_____ Drive Pipe Diam._____in. Depth_____ft
   c. Drilled X Finished in Drift X In Rock_____
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
#1 Gravel Pack		

2. Well furnishes water for human consumption? Yes___ No X
3. Date well drilled February 20-22, 1989
4. Permanent pump installed? Yes ___ Date_____ No X
   Manufacturer_____ Type_____
   Location_____
   Capacity _____gpm. Depth of setting_____ft.
5. Well top sealed? Yes___ No___ Type_____
6. Pitless adapter installed? Yes___ No___ X
   Manufacturer_____ Model No._____
   How attached to casing?_____
7. Well disinfected? Yes X No___
8. Pump and equipment disinfected Yes___ No___

IMPORTANT NOTICE

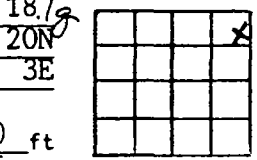
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosiure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

IL4f 126

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller S. Dean Albrecht License No 102-001203
10. Well Site Address Clinton, Il
11. Property Owner Thorp Seed Co. #5 Well No. 3133
12. Permit No. 139634 Date Issued 2-16-89
13. Location: County DeWitt
    Sec. 18/9
    Twp. 20N
    Rge. 3E



Show location in section plat
SE NE NE
Irrigation

14. Water from sand at depth 300 ft to 375 ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
12	steel	0	355

16. Screen: Diam. 12 in, Length 20' in, Slot Size .060
17. Size hole below casing 12 in. 18. Ground Elev._____ ft msl.
19. Static level 159 ft below casing top which is 1½ ft. above ground level. Pumping level ___ft, pumping gpm for ___ hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
SEE ATTACHED		
(over)		

Continue on separate sheet if necessary.

Signed Glenn Buck Date 3-26-89

Top Soil	0-5
Yellow Clay	5-12
Gray Clay	12-18
Sand #15 up to ½" Gravel	18-27
Gray Clay	27-31
Sand #15-40 Slot	31-33
Gray Clay	33-37
Sand #15-30 Slot	37-40
Gray Clay	40-48
Sand #15 up to ¼" Gravel	48-53
Bluish-Gray Clay	53-76½
Sand #20-40 Slot with 1/8" Gravel	76½-88
Gray Clay	88-100
Wood & Gray Clay	100-102
Hard Gray Clay	102-156
Stoney Clay	156-158
Gray Clay	158-169
Stoney Clay	169-295
Fine Sand	295-300
Sandy Gray Clay w/Streaks	300-329
#10-15 Slot Sand	329-330
Sandy Clay	330-338
#10 Slot Sand & Finer	338-345
#10-20 Slot Sand 10% #30 Slot	345-375